

FIG. 1

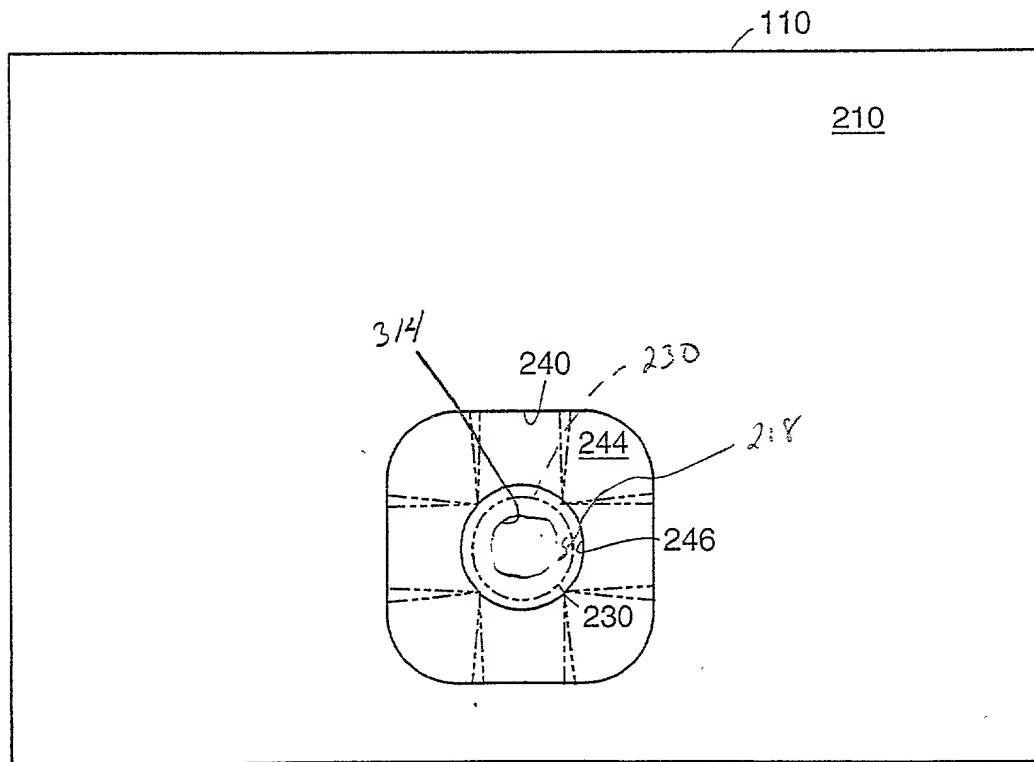
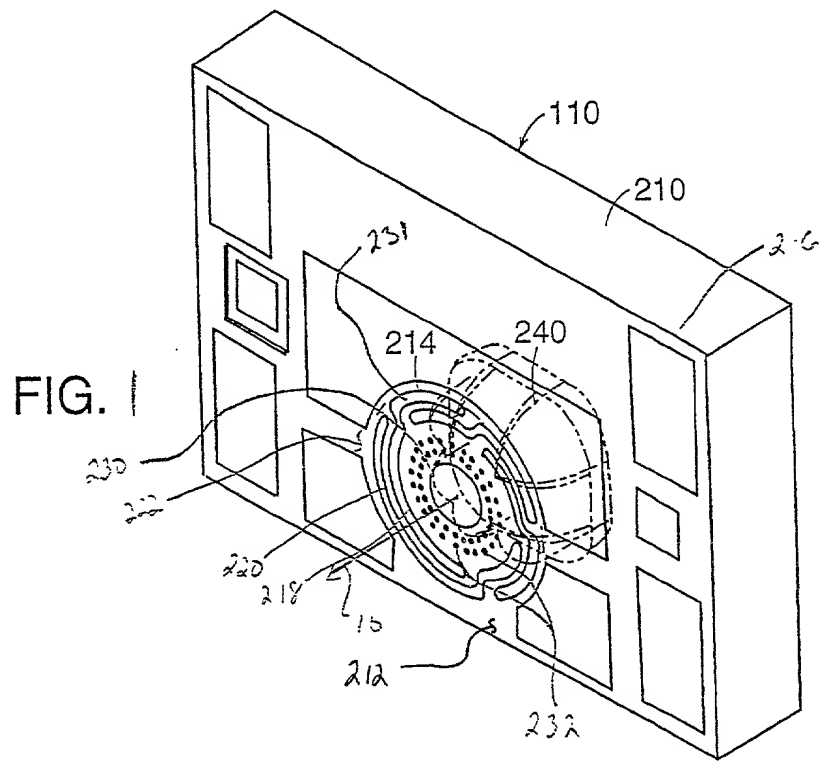


FIG. 2

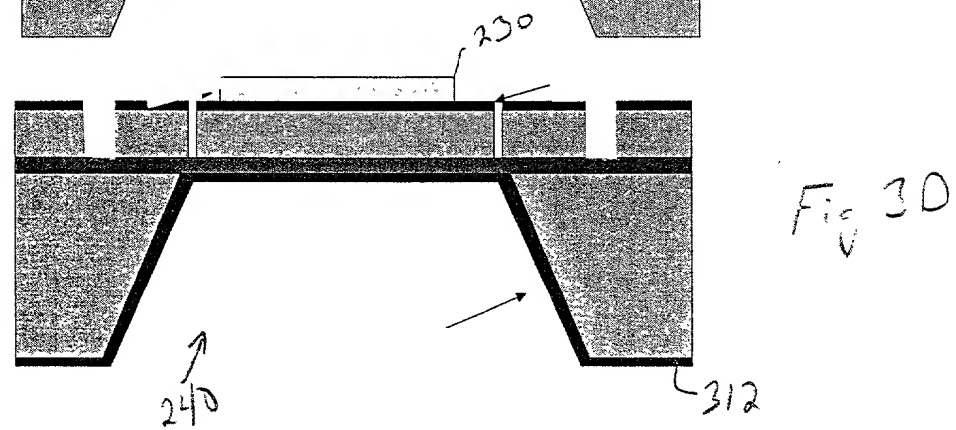
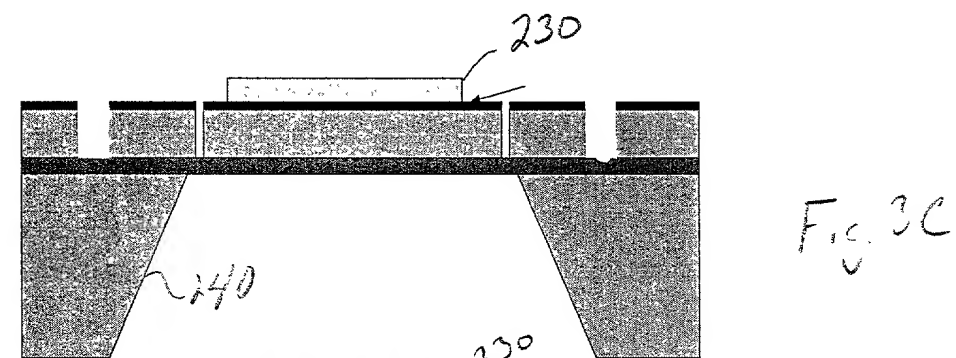
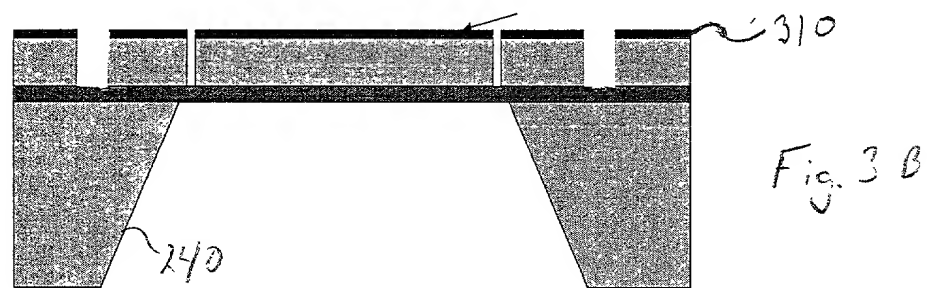
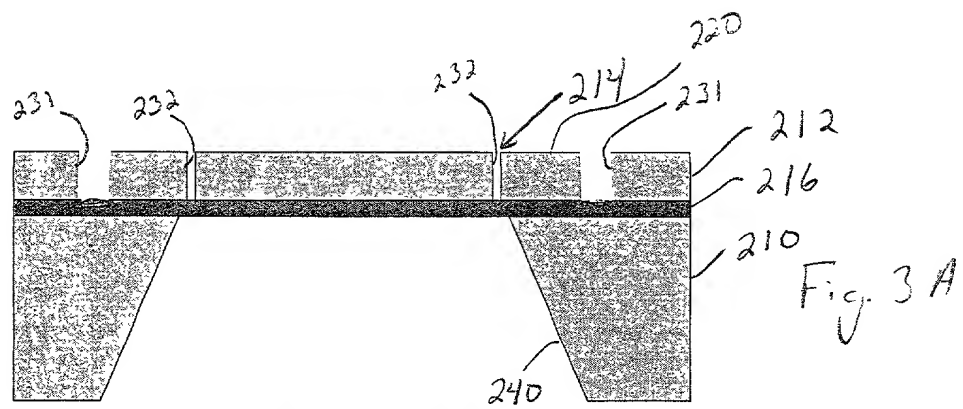


FIG. 3A

A cross-sectional view of a semiconductor device. A central trench (313) is formed in a substrate (210). The trench is filled with a material (311). A gate structure (212) is formed on the top surface of the substrate, with a gate oxide layer (216) on top. A contact pad (310) is formed on the top surface of the gate structure. A label 10 points to the gate structure, and a label 230 points to the contact pad. An arrow points to the trench (313).

[illegible]

Fig. 3F

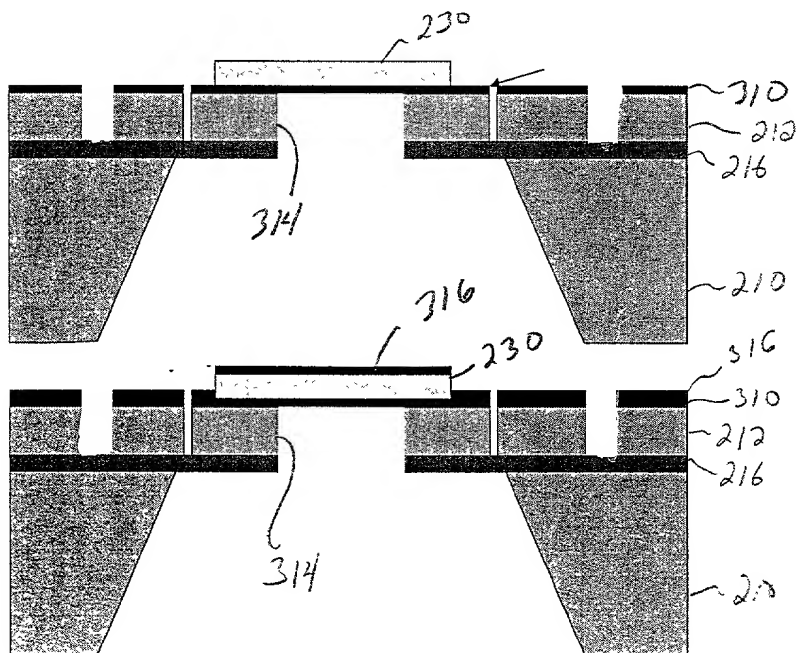
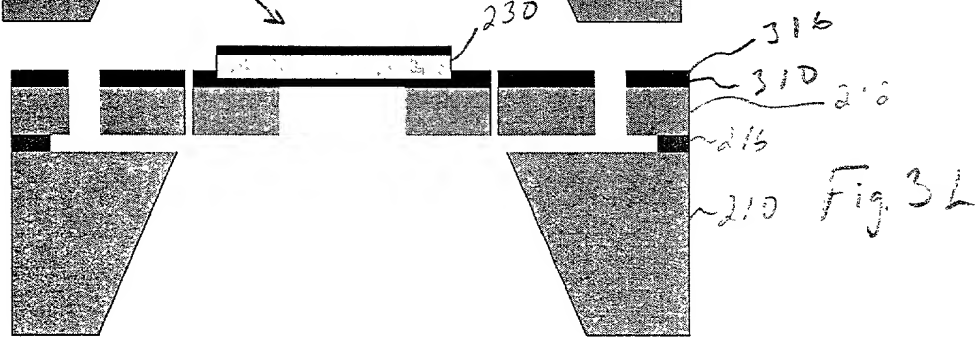
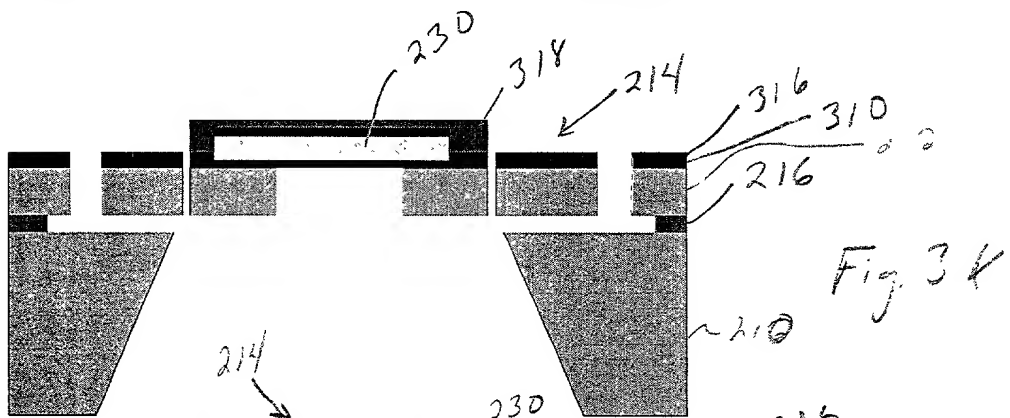
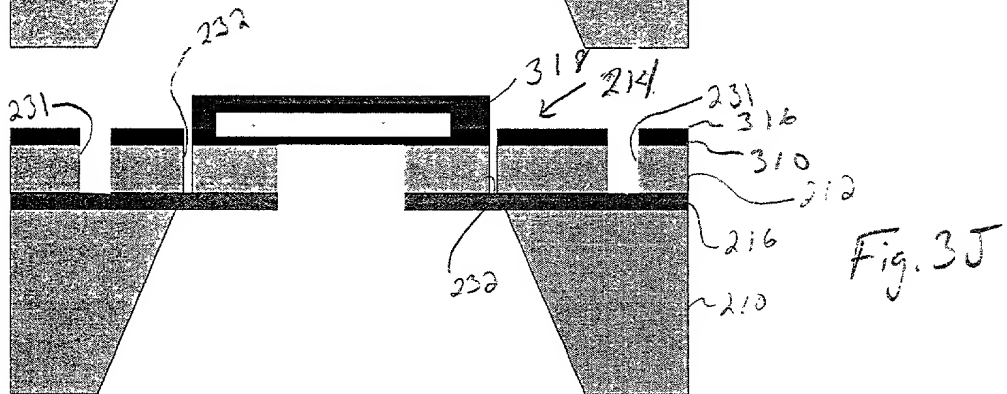
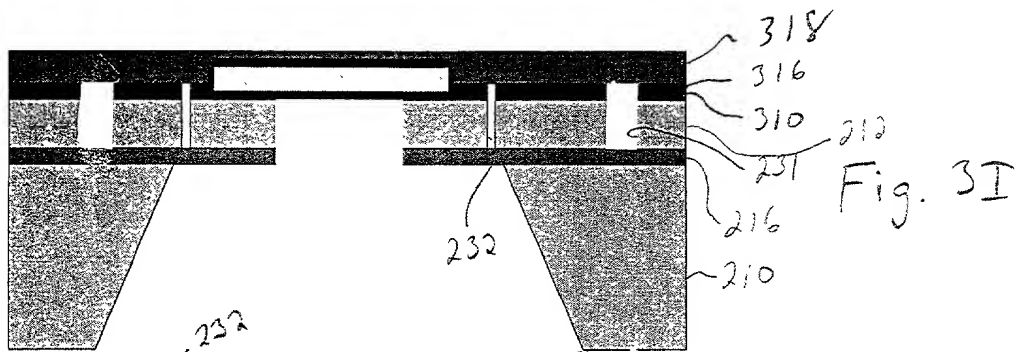


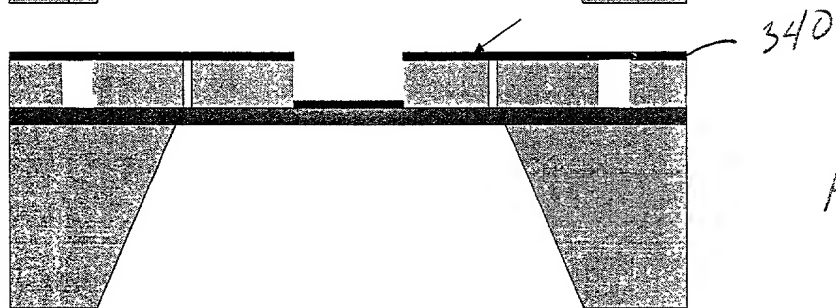
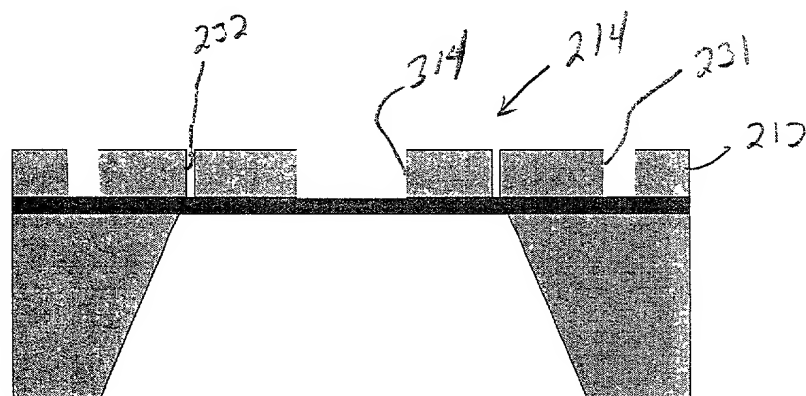
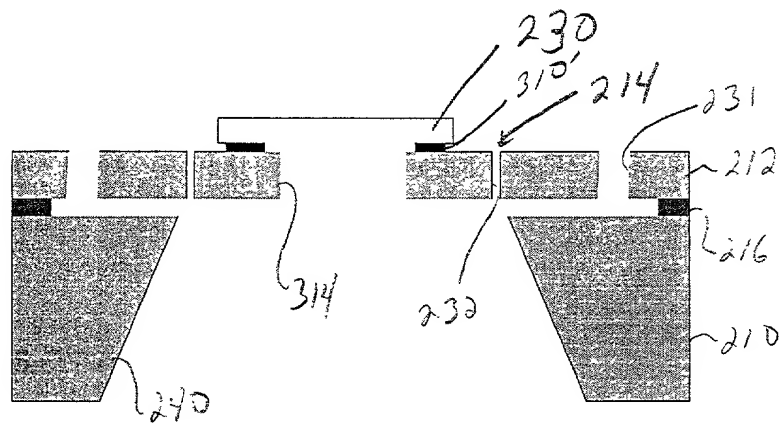
Fig 36

Fig. 3 H

FIG. 3I



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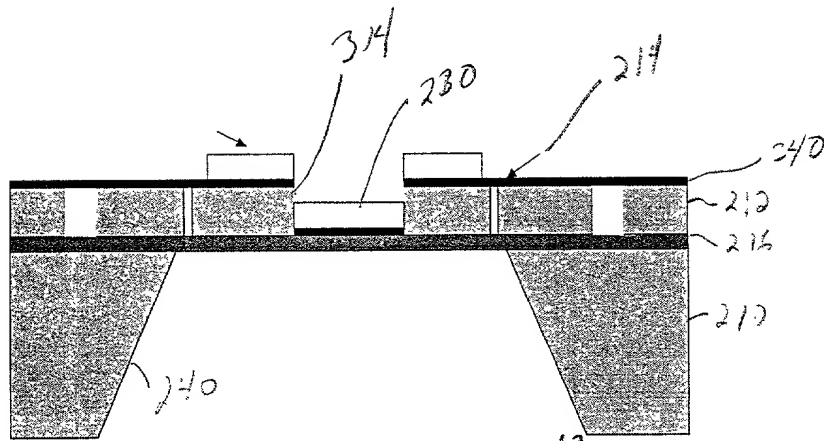


Fig. 5C

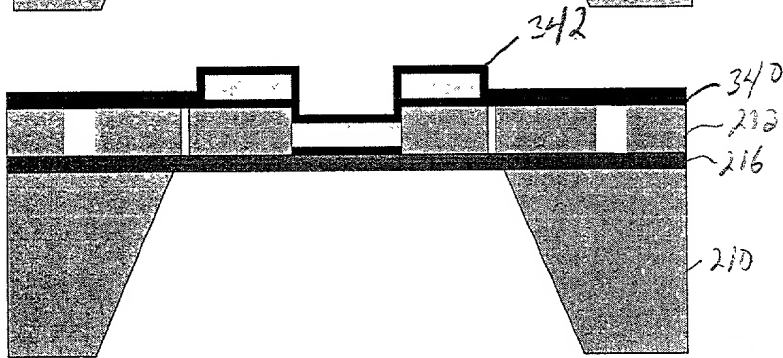


Fig. 5D

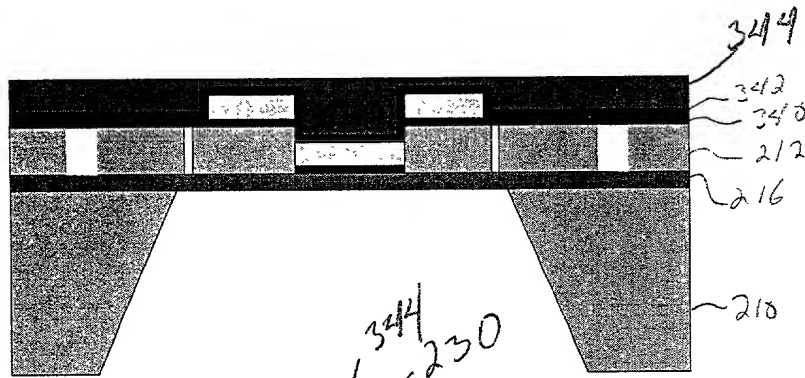


Fig. 5E

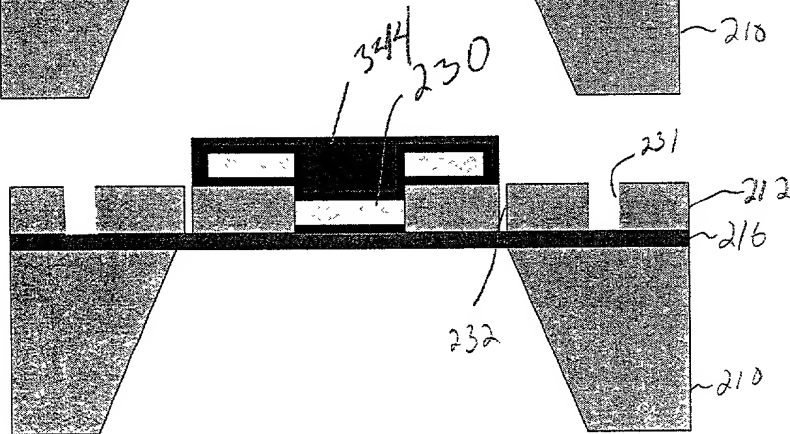


Fig. 5F

This diagram shows a cross-sectional view of a semiconductor device. A central gate stack, labeled 344, is positioned on a substrate. The gate stack consists of a top layer and a bottom layer. On either side of the gate stack, there are side spacers, labeled 216. The substrate is shown with a textured pattern, and the gate stack is shown with a solid black pattern. The side spacers are shown with a hatched pattern.

Fig. 56

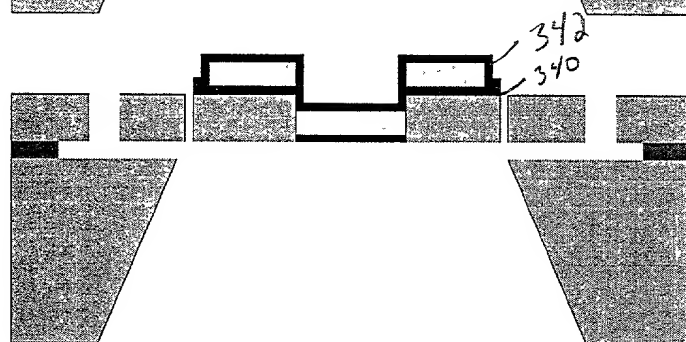


Fig 5H

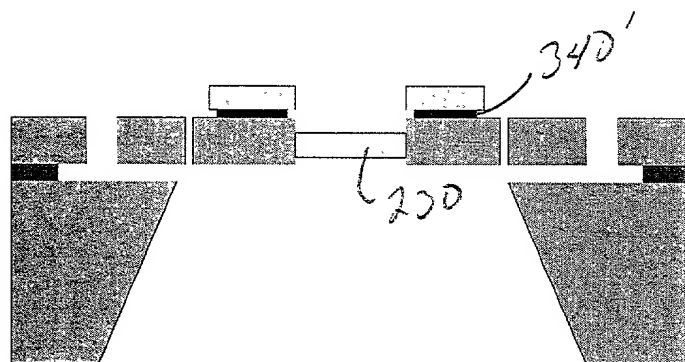


Fig. 51

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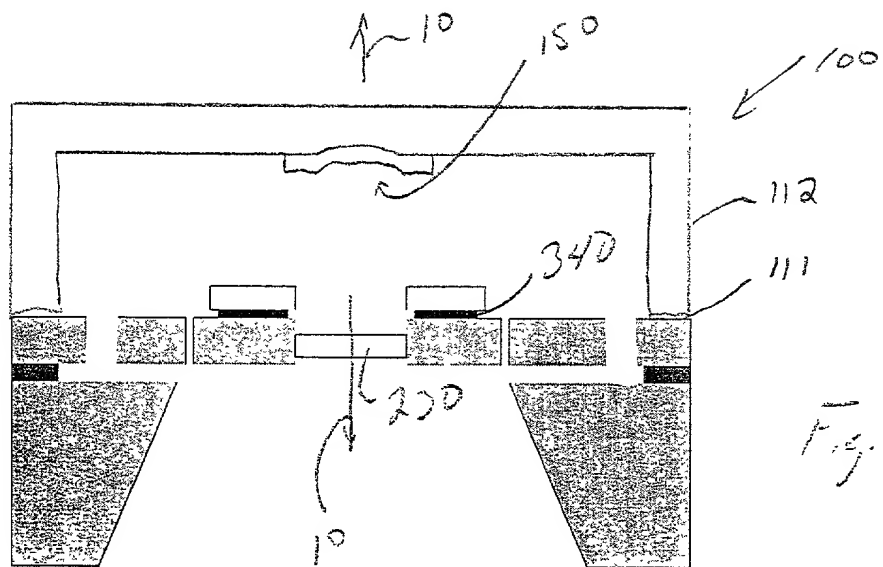


Fig. 6

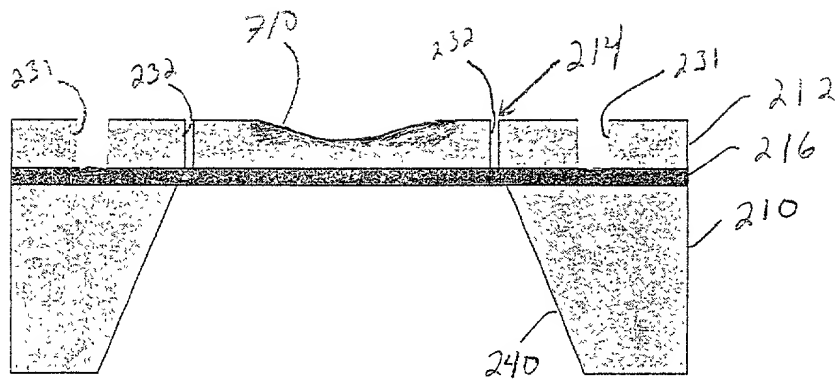


Fig. 7A

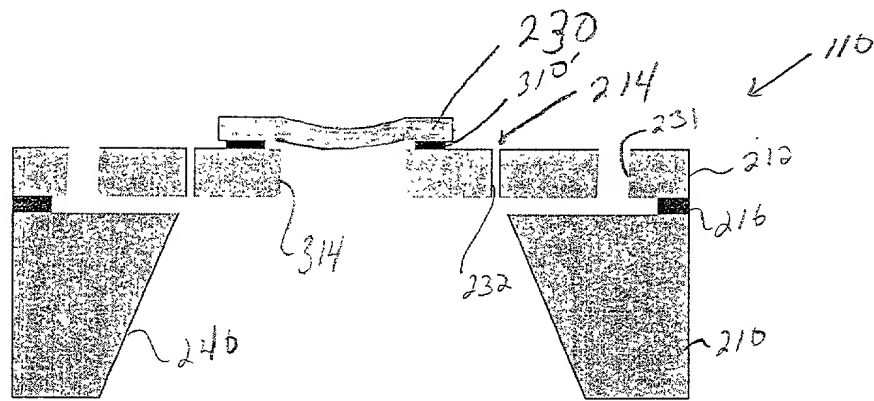


Fig. 7B

100050-07575050